1.3 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2005 ACS on STN 1999:550474 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 131:280631 Synthesis of tumor-inhibiting complex salts containing TITLE: the anion trans-tetrachlorobis(indazole)ruthenate(III) and crystal structure of the tetraphenylphosphonium salt AUTHOR (S): Peti, Wolfgang; Pieper, Thomas; Sommer, Martina; Keppler, Bernhard K.; Giester, Gerald CORPORATE SOURCE: Institute General Inorganic Chemistry, Univ. Vienna, Vienna, A-1090, Austria SOURCE: European Journal of Inorganic Chemistry (1999), (9), 1551-1555 CODEN: EJICFO; ISSN: 1434-1948 PUBLISHER: Wiley-VCH Verlag GmbH DOCUMENT TYPE: Journal LANGUAGE: English AB Indazolium trans-tetrachlorobis(indazole)ruthenate(1-) exhibits excellent results against different tumor models in vitro and in vivo. To improve the water solubility necessary for the introduction of this tumor-inhibiting compound into clin. trials, the authors synthesized the corresponding Na salt in a 2-step ion exchange via the tetramethylammonium salt. salt shows a 3,5-fold higher solubility in water relative to the indazolium The authors also synthesized the n-butylammonium, n-octylammonium, and tetraphenylphosphonium salts, all of which showed improved solubility in organic solvents. The x-ray crystal structure of the latter could be solved, proving the trans configuration of the complex anion (triclinic, P.hivin.1, a = 11.000(2), b = 13.503(2), c = 14.471(2) Å, α = 65.42(1), $\beta = 82.80(1)$, $\gamma = 67.93(1)$ °, V = 1810.2Å3, Z = 2, $\rho c = 1.50$ g/cm3, $\mu(MoK\alpha) = 8.1$, 5573 observed reflections with Fo > 4σ (Fo), 562 refined parameters, R1 = 0.033, wR2 = 0.088). In spite of the paramagnetic Ru(III) center an assignment of the coordinated indazole protons could be made with the help of a COSY experiment TΤ 124875-20-3 RL: RCT (Reactant); RACT (Reactant or reagent) (reactant for preparation of tetraphenylphosphonium transtetrachlorobis(indazole)ruthenate(III)) RN 124875-20-3 CAPLUS CN Ruthenate(1-), tetrachlorobis(1H-indazole-kN2)-, (OC-6-11)-, hydrogen, compd. with 1H-indazole (1:1) (9CI) (CA INDEX NAME) CM 1 CRN 124875-19-0 CMF C14 H12 C14 N4 Ru . H CCI CCS *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 271-44-3 CMF C7 H6 N2

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(See claim 33 6 a/so see
M [Rux B (H20) (OH) 2 (6) 1 2r+1
epd2 * Mis metal
x is halished
B(Hx)s cpd= (Risallgl,
6/Kenylene)
* B is some as opd I A BAB is hologel
X is sail as Cpd I il. imidagale, pyra
S is intered triagol, indazo
I proposition and $f = 0, 1, 0$